

Use of NAEFS products in Mexico



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SEMARN

FS products have not been completely disseminated in Mexico, where the most common users are the Weather Service and IMTA.

The main product used at IMTA are the EPSgrams from Environment Canada for cities in Mexico.

Some of the features that are followed are:

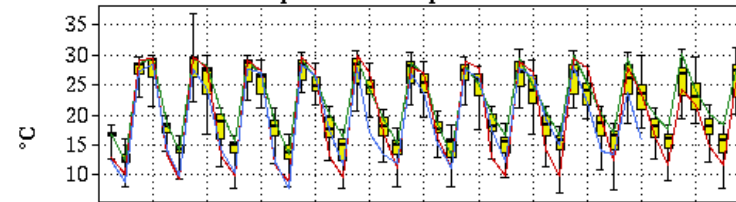
Changes in temperature, extreme precipitation events, strong winds.

Environnement Canada
Centre météorologique canadien

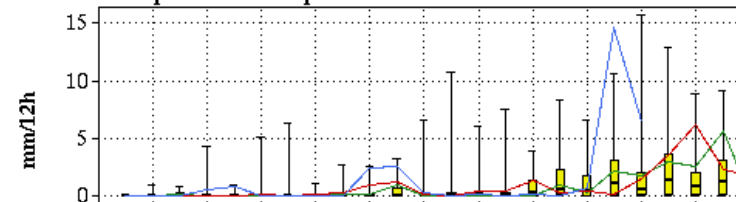
Environment Canada
Canadian Meteorological Service

Ensemble and Deterministic Forecasts issued 7 May 2010 00 UTC
Prévision d'ensemble et déterministe émises le 7 Mai 2010 00 UTC
for/pour NAEFS
CUERNAVACA (CVA) 18.92 N 99.23 W/O

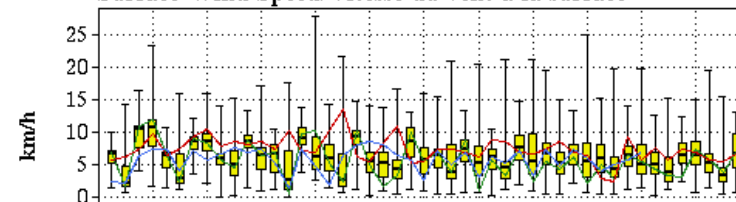
Surface Air Temperature/Température de l'air à la surface



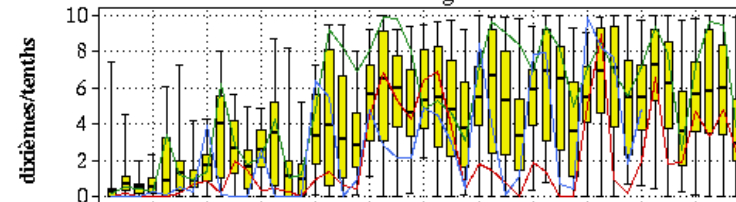
Precipitation/Précipitations

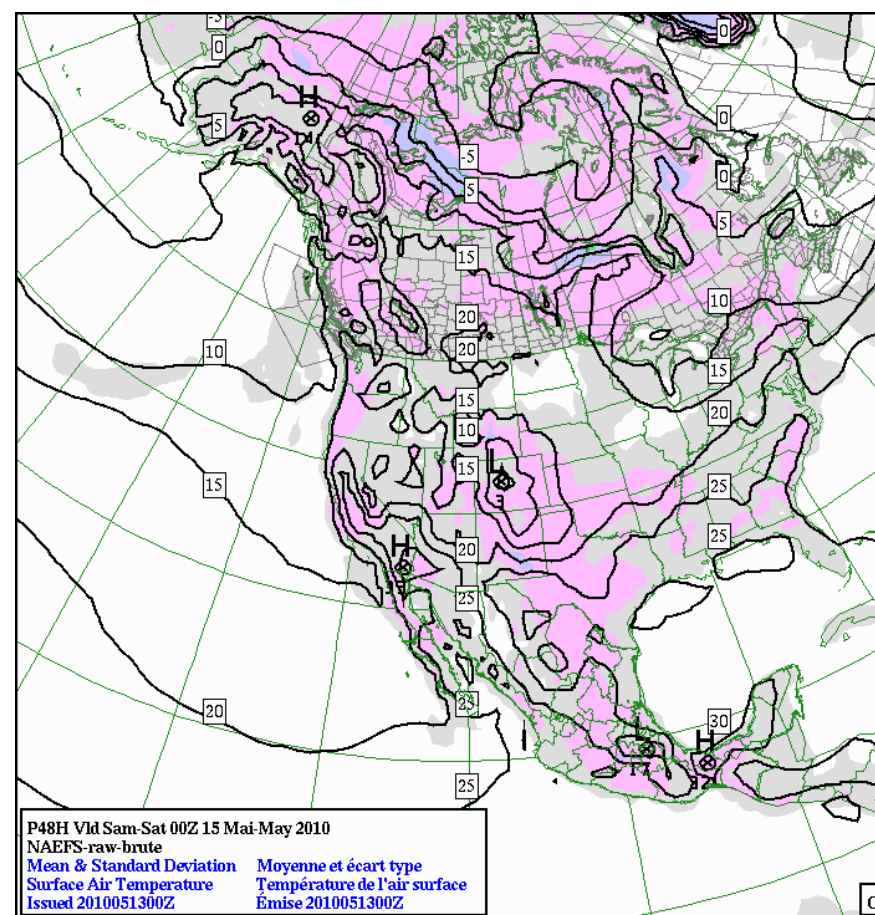
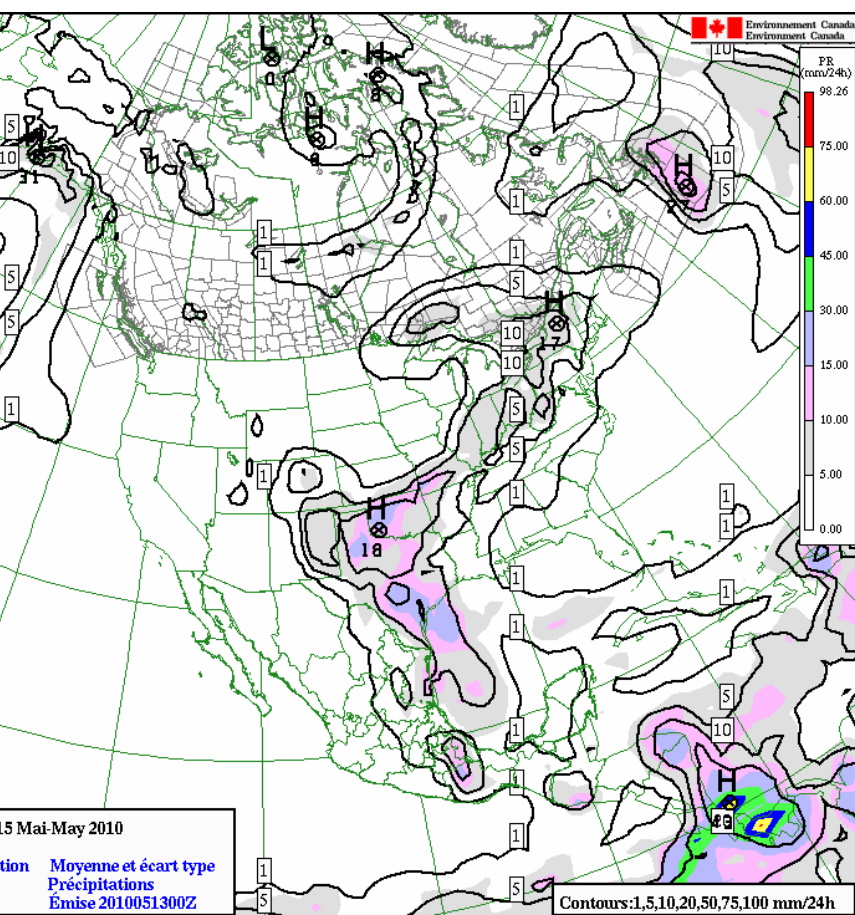


Surface Wind Speed/Vitesse du vent à la surface



Total Cloud Cover/Couvert nuageux total





Sometimes there are petitions for especial extended forecasts (more than 5 days in advance), this is not a regular request but happens when a high impact atmospheric phenomena has occurred, such as extended flooding or drought. In this case

IMTA's webpage galileo shows NAEFS products for temperature

Archivo Editar Ver Historial Marcadores Herramientas Ayuda

http://galileo.imta.mx/naefs.php

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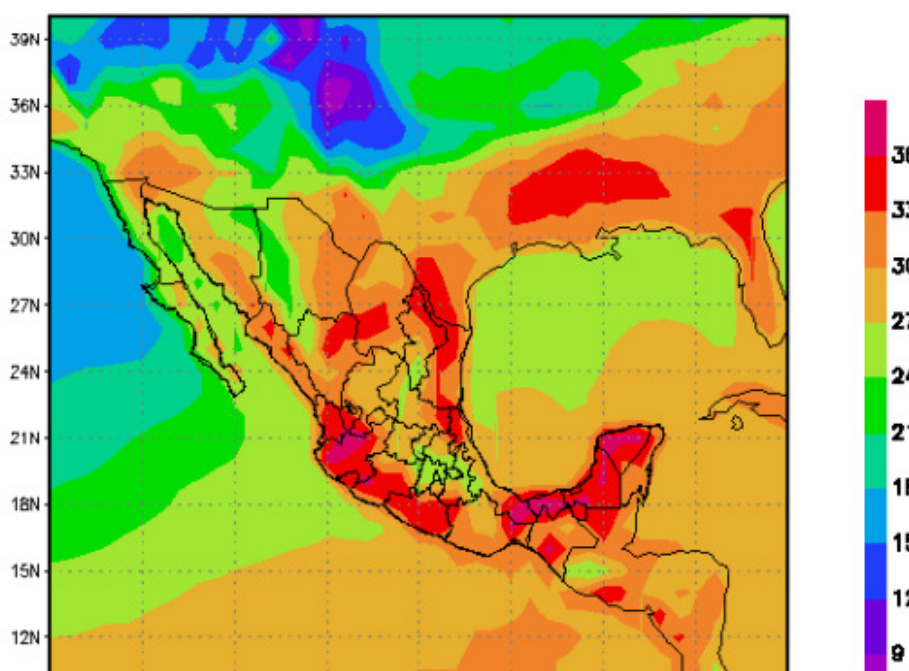
Tecnología del Agua y el Servicio Meteorológico Nacional
Invitan:
5 th NAEFS Workshop
May 17-19, 2010
THORPEX
A World Weather Research Programme
THORPEX NA Regional
Committee Meeting
May 17-19, 2010

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cuestionario.
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aquí

<http://www.emc.ncep.noaa.gov/gmb/ens/NAEFS.html>

Tipo	Variable	Fecha	Hora	
90% de probabilidad	Temperatura Máxima	20100514	18	Consultar

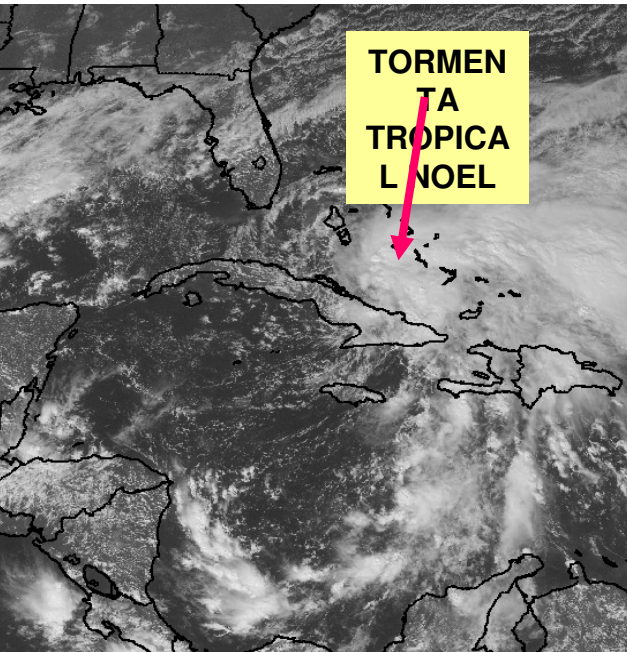
Temperatura Maxima 90% de probabilidad 20100514_18



39N
36N
33N
30N
27N
24N
21N
18N
15N
12N

36
33
30
27
24
21
18
15
12
9

however, there is still some limitations on the a amount



NAEFS products were used to emit extended weather forecasts, when a landslide blocked the Grijalva river and debris was removed during weeks of risky work



Other uses of NAEFS products have been:

Try to predict the successive passage of cold fronts over the Gulf of Mexico.

During the spring, predict the onset of the rainy season over the southern Mexican states.

evaluation of NAEFS products has been subjective. We observed:

systematic errors on the diurnal cycle of temperatures.

coarse model resolution, which does not take into account geographic variability.

a difficult interface in order to download raw data for comparisons.

urgent need of objective evaluation of products.

Comments or questions